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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/719,857	11/20/2003	David Miller	019930-002810US	2954	
20350	7590 04/08/2004		EXAMINER		
	D AND TOWNSEND	DOUGHERTY, THOMAS M			
	TWO EMBARCADERO CENTER EIGHTH FLOOR		ART UNIT	PAPER NUMBER	
	SISCO, CA 94111-3834		2834		
		•	DATE MAILED: 04/09/200	DATE MAILED: 04/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/719,857	MILLER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thomas M. Dougherty	2834			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed  s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 20 N	ovember 2003.				
2a) This action is <b>FINAL</b> . 2b) ☐ This	☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-91 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-91 are subject to restriction and/or expressions.	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:				

Application/Control Number: 10/719,857 Page 2

Art Unit: 2834

## Election Restriction

 Claims 1-2, drawn to a method for overcoming stiction, classified in class 310, subclass 309 or 311.

- II. Claims 3-10, drawn to an electromechanical device with a means to overcome stiction, classified in class 310, subclass 309, 311 or 328.
- III. Claims 11-17, drawn to a method of overcoming stiction in a micromirror device, classified in class 310, subclass 308, 311 or 328.
- IV. Claims 18-24, drawn to a method of overcoming stiction in a device comprising a plurality of micromirrors, classified in class 310, subclass 309, 311 or 328.
- V. Claims 25-31, drawn to an electromechanical device with a structure that allows overcoming stiction, classified in class 310, subclass 309, 311 or 328.
- VI. Claims 32-40, drawn to a method of providing localized vibration to a stop or structural plate, classified in class 310, subclass 309, 311 or 328.
- VII. Claims 41-45, drawn to an electormechanical structure with a pivot, mechnaical stop and actuator, classified in class 310, subclass 309, 311 or 328.
- VIII. Claims 46-49, drawn to an optical routing apparatus, classified in class 310, subclass 309, 311 or 328.

Art Unit: 2834

- IX. Claims 50-56, drawn to an electromechanical structure with a stop and actuator and structural plate, classified in class 310, subclass 309, 311 or 328.
- X. Claims 57-62, drawn to a method for providing a localized vibration to a stop, classified in class 310, subclass 309, 311 or 328.
- XI. Claims 63 and 64, drawn to an electromechanical structure, classified in class 310, subclass 309 or 311.
- XII. Claims 66 and 67, drawn to an optical routing apparatus, classified in class 310, subclass 309, 311 or 328.
- XIII. Claims 68-80, drawn to an electromechanical apparatus, classified in class 310, subclass 309, 311 or 328.
- XIV. Claims 83-89, drawn to a method of providing localized vibration to stop or structural plate, classified in class 310, subclass 309, 311 or 328.
- XV. Claims 90 and 91, drawn to an electromechanical structure including a stop, base layer pivot, driving force and a structural plate, classified in class 310, subclass 309, 311 or 328

This application contains claims directed to the following patentably distinct species of the claimed invention: the group I, III and IV inventions. Group I provides for overcoming stiction of a structural plate. Group III provides for overcoming stiction for a micromirror. Group IV provides for overcoming stiction for a plurality of micromirrors.

Art Unit: 2834

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1 and 2 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

This application contains claims directed to the following patentably distinct species of the claimed invention: the group II, V, VII, IX, XI, XIII and XV inventions.

Group XI provides for an electromechanical structure including only a mechanical stop, actuator and structural plate. Groups II, V, VII, IX, XIII and XV cite the limitations of Group XI as well as additional limitations.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 63 and 64 are generic.

Art Unit: 2834

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Inventions of Groups VI, X and XIV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation. The Group VI invention applies static force and both actuators are deactivated at the same time. The Group X invention activates a first actuator while

Art Unit: 2834

deactivating the second actuator at the same time. The Group XIV invention is for a micromirror while the other two groups comprise structural plates.

Inventions of Groups VIII and XII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation. The Group VIII invention employs a DC actuator, while the Group XII invention employs an AC actuator.

Inventions of Groups II, V, VII, IX, XI and XV and Groups I, III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for using the product as claimed can be practiced with another materially different product such as a relay.

Inventions of Groups VIII and XII and Groups I, III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for using the product as claimed can be practiced with another materially different product such as a relay.

Art Unit: 2834

Inventions of Groups I, III and IV and of Groups VI, X and XIV are unrelated.

Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, for example the second set of groups defines specific methods of operation in more detail than the first set of groups.

Inventions of Groups II, V, VII, IX, XI, XIII and XV and inventions of Groups VI, VIII, X, XII and XIV, are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for using the product as claimed can be practiced with another materially different product such as a relay.

Inventions of Groups VI, X, and XIV and inventions of Groups VIII and XII, are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for using the product as claimed can be practiced with another materially different product such as a relay.

Application/Control Number: 10/719,857 Page 8

Art Unit: 2834

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Direct inquiry concerning this action to Examiner Dougherty at (571) 272-2022.

tmd

April 6, 2004

THOMAS M. DOUGHERAN

MARY EASTIME OROUP 2100